

JAPANESE PATENT OFFICE -- Patent Abstracts of Japan

Publication Number: 11202804 A

Date of Publication: 1999.07.30

Int.Class: G09F 9/37

Date of Filing: 1998.01.14

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ELECTROPHORESIS DISPLAY DEVICE

Abstract:

PROBLEM TO BE SOLVED: To hold strong the memory holding force with which colored electrostatically charged migrating particles stick on an electrode and to reduce the power consumption by stacking a 1st and a 2nd electrode on the 1st substrate so that they shift in position horizontally and vertically to the 1st substrate and providing the 1st and 2nd electrode with areas overlapping with each other horizontally to the 1st substrate.

SOLUTION: The 1st electrode and the 2nd electrode 7 which is applied with a different voltage from the 1st electrode 8 are arranged shifting in position horizontally to the 1st substrate 3. Further, the 1st electrode 8 and 2nd electrode 7 has areas overlapping with each other horizontally to the 1st substrate 3. Thus, an electric field controlling a space distribution in the device is produced and then colored electrostatically charged migrating particles 2 move between the 1st electrode 8 and 2nd electrode 7 horizontally to the 1st substrate 3. Then an insulating layer 4 or 1st electrode 8 or 1st substrate 3 is so colored as to have different optical characteristics from the colored electrostatically charged migrating particles 2, thereby actualizing a dichroic display such as a black-and-white display.

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